

4-20 mA Amperometer, Simulator and Calibrator

HI 931002

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HI 931002 is a portable instrument designed by the Plant Repair and Maintenance Operator for the MRO! This portable simulator can monitor and regulate 4-20 mA from practically any process meter with or without a voltage generator. The communication bus from process instrumentation can be simulated in any of the following modes:

Passive drive/Calibrator mode:

HI 931002 can set the 4-20 mA current values and the user can then adjust the process meter accordingly.

Active drive/Simulator mode:

HI 931002 simulates the correct current values as above in addition to providing power to the bus communication. Power is provided through an external adapter (included) which is connected to the simulator. This mode is ideal to calibrate chart recorders, pressure transducer or current indicators.

Passive measurement/Tester mode:

HI 931002 practically becomes an Amperometer. It measures and displays the mA (or pH) values transmitted by the process meter.

Active measurement/Tester mode:

Same as above in addition to providing voltage to the 4-20 mA bus.

HI 931002 can measure incoming current, provide power, and simulate 4-20 mA output to calibrate your process meter. A large LCD shows values on the display. You can select between drive and measurement modes through a switch on the front panel and two dials allow for quick adjustment of the current.



ORDERING INFORMATION

HI 931002 is supplied with 1 m (3.3') connection cable, battery, 12 VDC adapter and instructions.

ACCESSORIES

HI 7862/1 1 m (3.3') connection cable

SPECIFICATIONS		HI 931002
Range	Active Drive	2.00 to 19.99 mA; -1.50 to 14.00 pH
	Passive Drive	2.00 to 19.99 mA; -1.50 to 14.00 pH
	Active Measure	0.00 to 19.99 mA; -3.50 to 14.00 pH
	Passive Measure	0.00 to 19.99 mA; -3.50 to 14.00 pH
Resolution		0.01 mA; 0.01 pH
Accuracy (@20°C/68°F)		±0.01 mA; ±0.01 pH
Input Resistance		20Ω
Fuse		5 x 20 mm, 200 mA, 250V
Power Supply		9V; approximately 1600 hours of continuous use; or 12 VDC adapter (included)
Environment		0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions		180 x 83 x 40 mm (7.1 x 3.3 x 1.6")
Weight		320 g (11.3 oz.)